

History of ANSI/AGMA/AWEA 6006-A03 Standard for Design and Specification of Gearboxes for Wind Turbines

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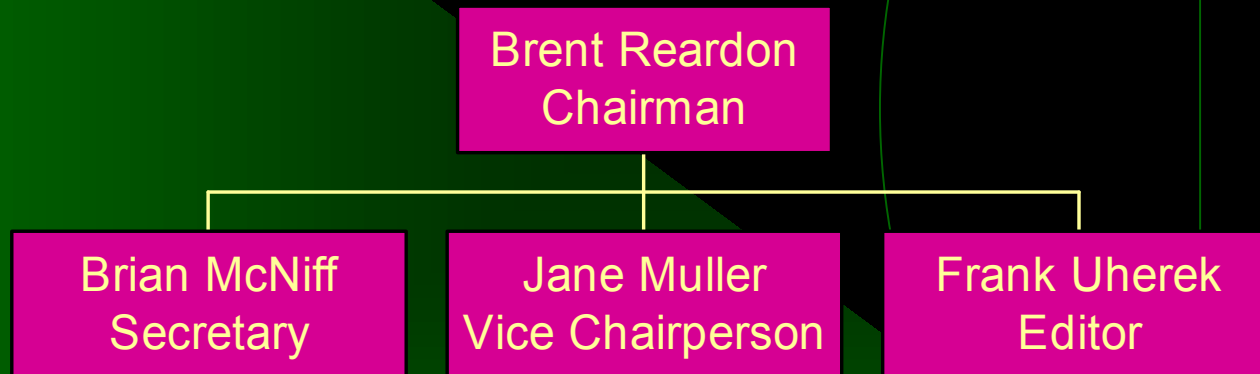
First Ad Hoc Meeting at AWEA WINDPOWER 1991 Palm Springs, CA

- ◆ Robert Errichello, GEARTECH
- ◆ Brian McNiff, McNiff Light Industry
- ◆ Jane Muller, GEARTECH
- ◆ Walt Musial, NREL
- ◆ Brent Reardon, FPL

Ad Hoc Meeting Results:

- ◆ Document collective experience
- ◆ Propose project to develop guidelines for WT gearboxes to AWEA Standards Committee
- ◆ AWEA suggested a joint effort with AGMA
- ◆ First AGMA/AWEA Committee meeting on Oct. 19, 1992

AGMA/AWEA Wind Turbine Committee



AGMA/AWEA 6006 WT Committee Progress

- ◆ Ten meetings during 1993-1996
- ◆ 1996 draft submitted to AGMA
- ◆ AGMA/AWEA 921-A97 published Oct. 1997
- ◆ Work began in 1999 to upgrade from Info Sheet to a Standard
- ◆ Bearing rating study
- ◆ Gear rating study

WT Committee Members

- ◆ Purchasers
- ◆ WT manufacturers
- ◆ Gear manufacturers
- ◆ Bearing manufacturers
- ◆ Lubricant manufacturers
- ◆ Lube system component manufacturers
- ◆ Consultants

WT Committee Members (cont.)

- ◆ Monitoring specialists
- ◆ WT operators
- ◆ WT service organizations
- ◆ Power industries
- ◆ Government agencies
- ◆ Certification societies
- ◆ Universities
- ◆ Private individuals

Countries Participating

- ◆ Belgium
- ◆ Denmark
- ◆ Finland
- ◆ Germany
- ◆ Japan
- ◆ Norway
- ◆ Spain
- ◆ Switzerland
- ◆ United Kingdom
- ◆ United States

ANSI/AGMA/AWEA 6006-A03 Specifications

- ◆ Design of all gearbox components
- ◆ Procurement procedures
- ◆ Quality procedures
- ◆ Testing procedures
- ◆ Methods for rating gears

ANSI/AGMA/AWEA 6006-A03

Specifications (cont.)

- ◆ Methods for rating bearings
- ◆ Methods for rating shafts
- ◆ Guidelines for tribology
- ◆ Guidelines for lube cleanliness
- ◆ Guidelines for condition monitoring

Thanks for your attention!

- ◆ Reference: GEARTECH Report No. 2070 “Overview of AGMA/AWEA 6006 Standard for Design and Specification of Gearboxes for Wind Turbines.”